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U. S. Department of Agriculture - Forest Service
CENTRAL STATES FOREST EXPERIMENT STATION
In Cooperation With
Ohio Agricultural Experiment Station
DEPARTMENT OF FORESTRY

Technical Note 52.

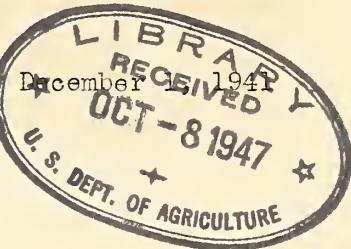
VOLUME TABLE 1/

for

BLACK OAK

(*Quercus velutina*)

Holmes County, Ohio



Merchantable Stem to a Variable Top Diameter INTERNATIONAL Rule ($\frac{1}{4}$ " Kerf)

Diameter breast high outside bark (inches)	Gross volume of stem in 12.3-foot logs to merchantable height						Top d.i.b. at merchantable limit	Basis in trees
	1 log	2 logs	3 logs	4 logs	5 logs	6 logs		
7	11	19	27				5.6	2
8	15	26	36	45			5.9	1
9	19	34	47	59			6.2	1
10	24	42	59	75			6.4	3
11	30	53	73	93			6.8	3
12	36	64	89	112	135		7.1	4
13		76	106	135	161		7.4	5
14		90	126	159	191		7.7	3
15		105	147	186	223	259	8.0	3
16		122	170	215	258	299	8.4	2
17		140	194	246	295	343	8.8	2
18			221	280	336	390	9.1	1
19			249	316	379	440	9.5	6
20			280	354	425	493	9.8	3
21			312	395	474	550	10.2	3
22			346	438	526	611	10.6	5
23			382	484	581	674	11.0	5
24			421	533	639	742	11.4	5
25			461	583	700	813	11.8	1
26			503	637	765	888	12.3	4
27			548	693	832	966	12.7	2
28			594	752	903	1048	13.2	1
29			643	814	976	1134	13.6	3
30			693	878	1053	1223	14.0	3
31			747	945	1134	1317	14.5	-
32			795	1015	1218	1414	15.0	-
33			859	1087	1304	1514	15.4	3
34			918	1162	1395	1619	15.9	1
35			980	1240	1488	1728	16.4	-
36			1043	1321	1585	1840	16.9	1
37			1109	1404	1685	1957	17.4	-
38			1178	1491	1789	2077	17.9	-
39			1249	1580	1896	2202	18.4	1
40			1322	1673	2007	2331	18.9	-
41			1396	1767	2121	2463	19.4	-
42			1473	1865	2238	2598	20.0	-
43			1554	1967	2360	2740	20.4	1

Basis in trees-- number	1	5	19	27	23	3	--	78
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1/ Trees climbed and measured by personnel of Work Projects Administration
Official Project 65-1-42-166 - "The Ohio Woodland Survey." Measurements

taken at 12-foot log lengths above a 1.0-foot stump height. Scaled as 12-foot logs, and additional shorter top logs; top sections less than 8 feet in length scaled as fractions of an 8-foot log. Table prepared, in 1941, by the equation method. Coefficient of multiple correlation (R) = .994. The band of the standard error of estimate is 88.0 to 113.3 percent. Block shows limits of basic data.

The total estimated gross volume of single black oak trees or stands should be corrected for cull (including defect, sweep, crook, shake, etc.) by a percentage reduction. This percentage should be determined locally through observing the cull elements and through local experience of millmen as regards losses from rot, shake, etc., in utilizing this species.

R. E. Emmer
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